

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	("4474405").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/26 08:18
L2	45	leckrone.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 08:23
L3	388	anastomo\$3 with (endoscop\$5 or laparoscop\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 09:41
L4	117	anastomo\$3 with laparoscop\$6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 08:30
L5	143	(606/154).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/26 09:45
L6	260	end near2 side and anastomo\$3 and catheter with deliver\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 09:52
L7	386	anastomo\$3 and catheter with deliver\$2 with (graft or tube)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 09:53
L8	284	anastomo\$3 and catheter with deliver\$2 with (graft)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 09:59
L9	74	anastomo\$3 same catheter with deliver\$2 with (graft)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 10:05

L10	20	catheter with deliver\$2 with graft and (@ad<"19910101" or @rlad<"19910101")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 10:17
L11	6593	lau.in. or macgregor.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 10:18
L12	158	(lau.in. or macgregor.in.) and stent	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 10:19
L13	825	gelatin and stent and wire	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 10:20
L14	233	gelatin and stent and wire and wrap\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 10:23
L15	14	magnet\$ in. and roll\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 10:25
L16	36	roll\$3 with stent and (@ad<"19910701" or @rlad<"19910701")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 10:32
L17	326	roll\$3 with graft and (@ad<"19910701" or @rlad<"19910701")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 10:32

	Document ID	Kind Code	Source	Issue Pat	Pages	Imag.
1	US 3903270 A		USPAT	19750902	5	US 3
2	US 4145337 A		USPAT	19790320	18	US 4
3	FR 2475896 A		DERWEN	19810821	12	FR 2
4	US 4479933 A		USPAT	19841030	4	US 4
5	SU 1123663 A		DERWEN	19841115	NA	
6	SU 1128918 A		DERWEN	19841215	NA	
7	US 4817847 A		USPAT	19950404	11	US 4
8	US 5047039 A		USPAT	19910910	15	US 5
9	US 5156613 A		USPAT	19921020	8	US 5
10	US 5197649 A		USPAT	19930330	17	US 5
11	SU 1806586 A		DERWEN	19930407		
12	US 5207670 A		USPAT	19930504		
13	US 5254126 A		USPAT	19931019		
14	US 5256149 A		USPAT	19931026		
15	EP 568774 A1		EPO	19931110		
16	EP 568774 A		DERWEN	19931110		
17	US 5261920 A		USPAT	19931116		
18	JP 06014931 A		JPO	19940125		
19	US 5304190 A		USPAT	19940419		
20	US 5309927 A		USPAT	19940510		
21	US 5314435 A		USPAT	19940524		
22	DE 4243411 A		DERWEN	19940623		
23	US 5330486 A		USPAT	19940719		
24	US 5330486 A		DERWEN	19940719		
25	US 5333773 A		USPAT	19940802		
26	US 5344059 A		USPAT	19940906		
27	US 5346501 A		USPAT	19940913		
28	US 5350104 A		USPAT	19940927		
29	JP 06292672 A		JPO	19941021		
30	EP 623313 A1		EPO	19941109		
31	US 5368215 A		USPAT	19941129		
32	DE 4332238 C1		EPO	19941222		
33	DE 4332238 C		DERWEN	19941222		
34	US 5383882 A		USPAT	19950124		
35	DE 4327233 A1		EPO	19950216		
36	US 5411508 A		USPAT	19950502		
37	US 5413601 A		USPAT	19950509		
38	US 5425738 A		USPAT	19950620		
39	EP 570915 A		DERWEN	19950628		
40	US 5441507 A		USPAT	19950815		
41	US 5441507 A		DERWEN	19950815		
42	US 5443479 A		USPAT	19950822		
43	US 5447513 A		USPAT	19950905		
44	RU 2050154 C		DERWEN	19951220		

DOCUMENT-IDENTIFIER: US 4817847 A

TITLE: Instrument and a procedure for performing an anastomosis

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## Brief Summary Text - BSTX (15):

A further advantageous embodiment of the present invention comprises the features set out in claim 8. The separate introduction and the separate withdrawal of the staple magazine, on the one hand, and of the pilot head, on the other, now made possible by the present invention, means that the anastomosis is far simpler to perform, while avoiding excessive strain on the purse-string suture that has been put in position. Since the pilot head has already been introduced into the organ already foreseen for this head, there is no need to fold the organ over the pilot head, which was formerly required and was relatively inconvenient, in order to permit tying the suture. Of particular advantage, however, is the fact that because of the instrument according to the present invention, once the anastomosis has been performed the pilot head can be moved away from this, thus safeguarding the site of the joint that has just been completed, to the other outlet of the organ in question. Simultaneously, the connection of the guide journal with an endoscope entails the especial advantage that the site of the anastomosis (e.g., the oesophagus) can be inspected from the inside prior to performance of the anastomosis. In addition, the recently completed anastomosis can be inspected visually, once the instrument that bears the staple magazine has been removed, in order to detect any possible complications and eliminate these, or in order to obtain a photographic record of the procedure.

## Detailed Description Text - DETX (14):

The method of utilizing the instrument 1' configured according to the present invention will be described below on the basis of a circularly sutured anastomosis with the oesophagus. A purse-string suture is first placed in the oesophagus and in the second section of the intestine. The guide journal 39' is then installed in the drilled hole 38' of the endoscope 37'. The pilot head 43' is next screwed onto the endoscope 37'. These preparations are carried out on a sterile table by an endoscopologist. The insertion body 43' is then fixed in position by inserting the threaded pin 42' into the blind hole 41' in the guide journal 39'. The suturing instrument 11' with the staple magazine 13' is introduced into the second section of the intestine, when a purse-string suture is knotted about the journal 17'. The prepared endoscope 37' with the pilot head 34' is inserted through the mouth with the help of the stylet 44'. When this is done, the stylet 44' is advanced to the point that the operator can grasp it at the end of the oesophagus, on which the purse-string suture is located. The pilot head 34' and the endoscope 37' are moved forward by the stylet 44' until the insertion body 43' is pushed out of the end of the oesophagus. The next step is to tie the purse-string suture on the end of the oesophagus, between the insertion body 43' and the pilot head 34'. As soon as the two purse-string sutures are ready, the insertion body 43' is released from the guide journal and removed. Next, the journal 17' of the instrument 11' is screwed [on] with the guide journal 39'. This is done by rotating the journal with the help of the knurled knob 23'. Endoscopic examination of the wall of the oesophagus can be carried out with the help of the endoscope 37'. The anastomosis is completed by rotating the annular body 28'; when this is done, the forward movement of the guide cylinder 25' forces the staples from the corresponding slots and the internal structure of the organs is separated by the circular scalpel 14'. The endoscope 37' is uncoupled by rotation of the two screwed-together journals 17' and 39' with the help of the knurled knob 23', and the suturing instrument together with the guide journal 39' are removed from the intestine. To this end, the bayonet fastening 40' and the thread 22' close in opposing directions. The endoscope 37' and the pilot head 34' that is docked on this remain above the anastomosis. An inspection of the anastomosis can be carried out with the endoscope. Any complications can be detected with the endoscope 37'. It is also possible to make a photographic record of the site.

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